

Title (en)

System and Method for Monitoring the Health of Stator Vanes

Title (de)

System und Verfahren zur Überwachung der Gesundheit von Leitschaufeln

Title (fr)

Système et procédé pour contrôler l'état d'aubes de stator

Publication

EP 2660582 A1 20131106 (EN)

Application

EP 13165626 A 20130426

Priority

US 201213460000 A 20120430

Abstract (en)

A system (10,100) including a plurality of sensing devices (18,20) configured to generate acoustic emission (AE) signals (22,24,104) that are representative of acoustic emission waves propagating through a plurality of stator vanes (12) is presented. The system further includes a processing subsystem (26,114) that is in an operational communication with the plurality of sensing devices, and the processing subsystem is configured to generate a dynamic threshold based upon an initial threshold and the AE signals, determine whether a plurality of signals of interest exist in the AE signals based upon the dynamic threshold, extract the plurality of signals of interest from the AE signals based upon the dynamic threshold, determine one or more features corresponding to the plurality of signals of interest, and analyze the one or more features to monitor and validate the health of the plurality of stator vanes.

IPC 8 full level

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CPC (source: EP RU)

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[X] EP 2375081 A2 20111012 - GEN ELECTRIC [US]

Cited by

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2660582 A1 20131106; **EP 2660582 B1 20200219**; CN 103375421 A 20131030; CN 103375421 B 20170815; JP 2013231721 A 20131114; JP 6329338 B2 20180523; RU 2013119480 A 20141110; RU 2612999 C2 20170314

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